MIDMARK®

Light Installation Guide (L/R)

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LOWER LIGHT ARM INSTALLATION

(1) Raise seat section of chair.

(2) Position spacer (1, Figure 1), thrust bearing (2), and two washers (3) over bolt (4).

(3) Position two washers (5), thrust bearing (6), small spacer (7), and large spacer (8) over small hole in lower arm (9); then insert bolt (10).

(4) Secure lower arm (9) by threading bolt (10) into hole in top of bolt (4).

(5) Install bolt cover (11).

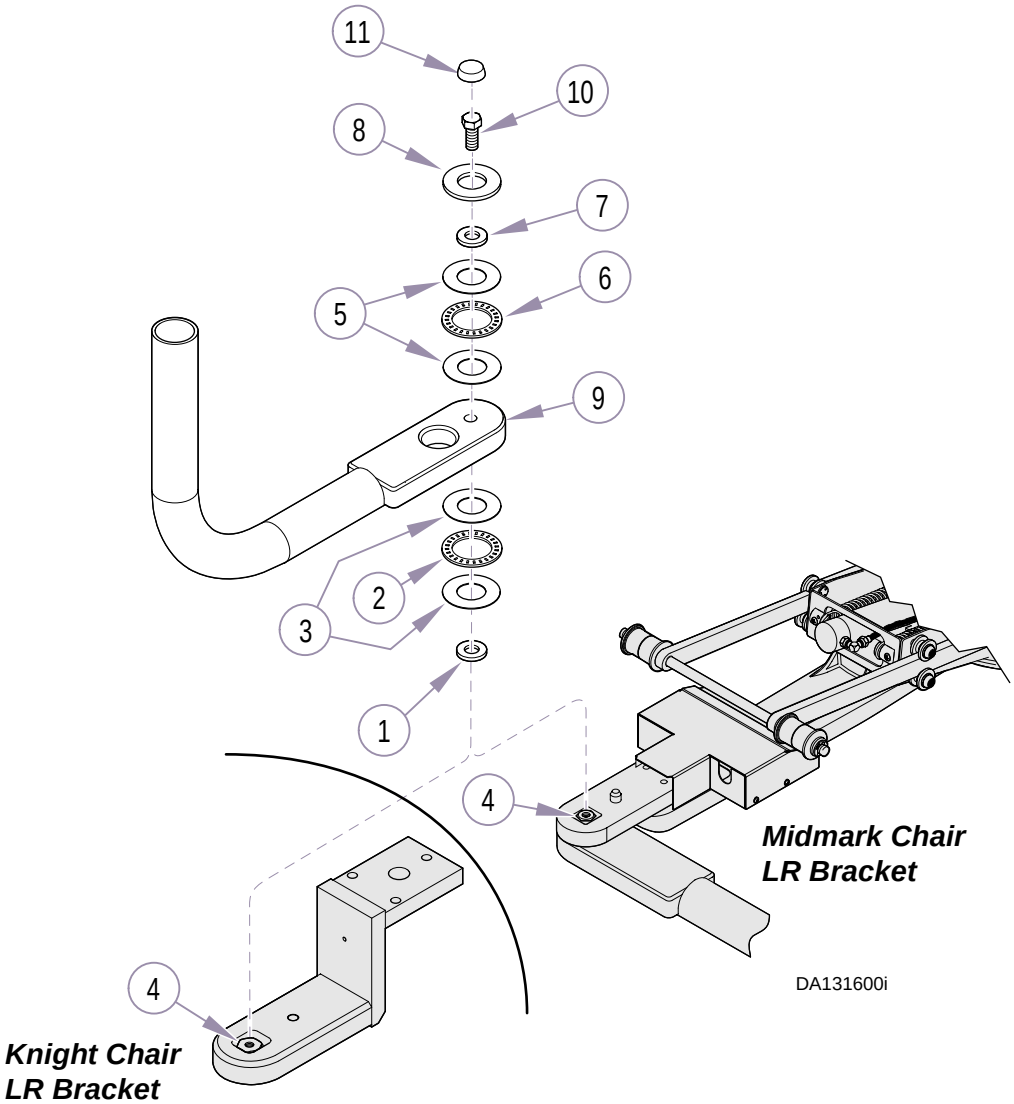

Figure 1. Lower Monitor Arm Installation

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UPPER LIGHT ARM INSTALLATION

(1) Position tab of rotation stop ring (1, Figure 2) in line with flex arm so that it is facing lighthead as shown; then insert flex arm shaft (2) into curved arm assembly (3) and secure with set screw (4).

(2) Install nylon washer (5) onto light arm post (6).

(3) Connect red wire from wire harness (7) ***[from upper light arm]*** to red wire from wire harness (8) ***[shipped loose]***, and black wire from wire harness (7) to black wire from wire harness (8).

EQUIPMENT ALERT

Use an assistant to secure lightarm at pivot points when performing the following step. Failure to do so could result in damage to lighthead.

(4) Feed wire harness (8) down thru lower arm (9) and insert light arm post (6) into lower arm.

(5) Pull wire harness (8) thru hole in end of lower arm (9).

(6) Lift cover ring (10) and install stop pin (11) into hole in curved arm assembly (3).

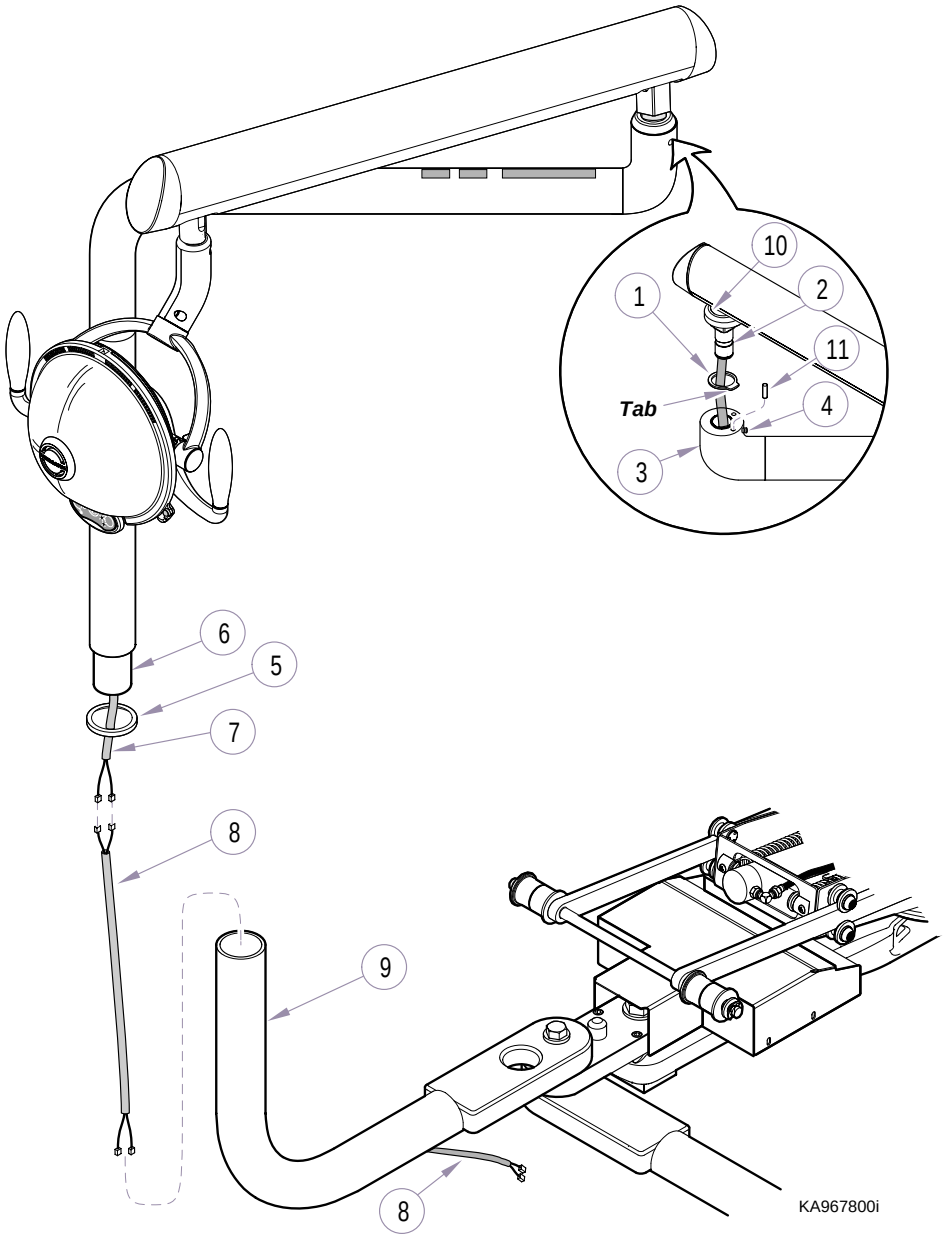

Figure 2. Upper Light Arm Installation *(shown w/ Midmark chair)*

ELECTRICAL CONNECTION / LEVELING LIGHT ARM

(1) Lift seat section of chair.

(2) Remove four screws (1, Figure 3) and connection box cover (2).

NOTE
When performing the following step on a Knight chair, route wire harness (3) thru retainer clip (not shown).

(3) Route wire harness (3) ***[from light]*** up thru hole in light arm (4).

(4) Position wire harness (3) in notch (5) of connection box.

(5) Connect black wire (A) from wiring harness (3) to black wire (B) ***[from umbilical]***.

(6) Connect red wire (C) from wiring harness (3) to red wire (D) ***[from umbilical]***.

(7) Position light arm (4) straight out as shown; then adjust three leveling screws (6) until light arm is level.

(8) Install connection box cover (2) and secure with four screws (1).

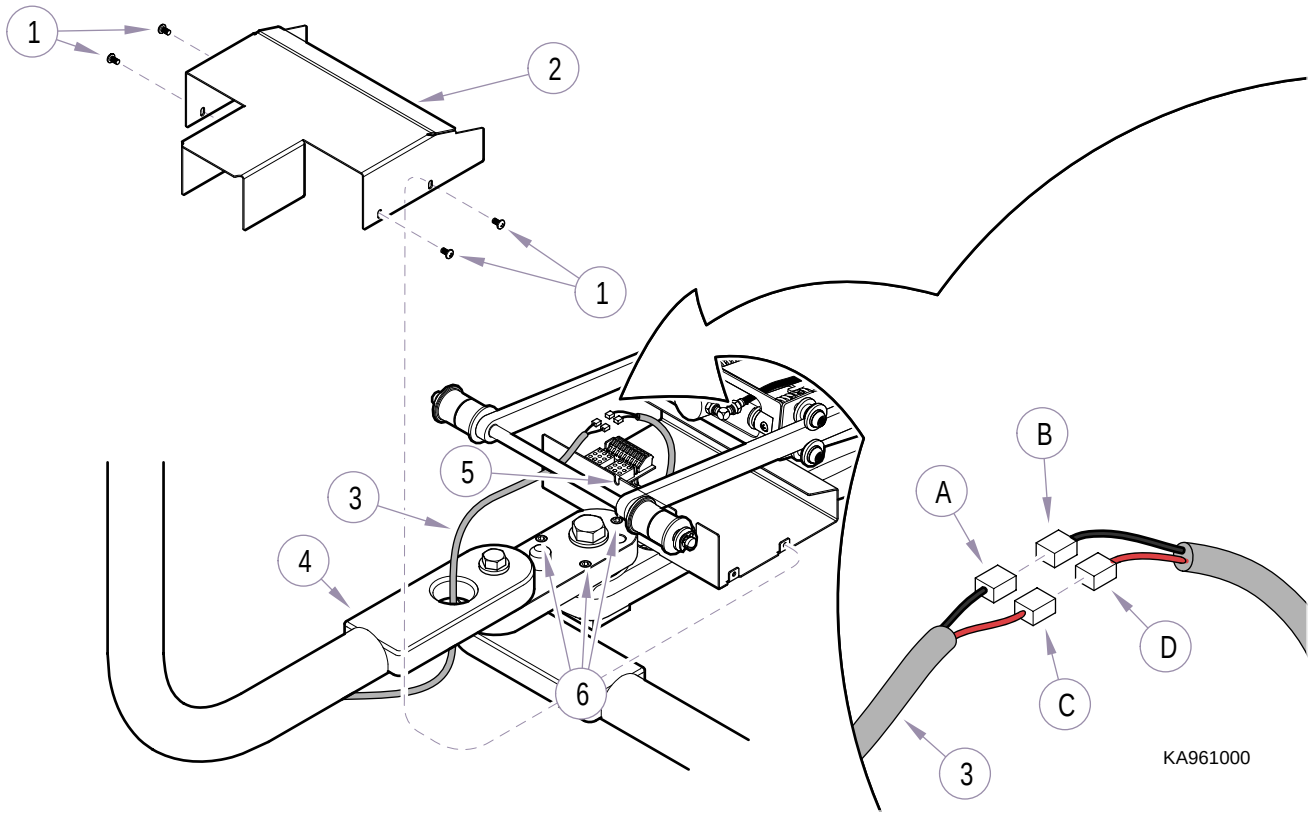

Figure 3. Electrical Connection *(shown w/ Midmark chair)*

INSTALLATION CHECKLIST

EQUIPMENT ALERT
Answering “NO” to any of the following questions indicates improper installation or a product malfunction. Check all connections, then refer to the Midmark Dental Light Service & Parts manual for corrective action if necessary.

Yes	No	With Master Switch ON (and light OFF)...
☐	☐	*When **Power Button** is pressed once, does light illuminate?*
☐	☐	*When **Power Button** is pressed twice, does **Auto-On Indicator Light** illuminate?*
☐	☐	*With **Auto-On** function selected, does light illuminate when light arm is moved below horizontal **[see Figure 4]**? (Refer to User’s Guide for adjustment).*
☐	☐	*When **Power Button** is pressed three times, does light shut off?*
☐	☐	*When **Composite Button** is depressed, does light become noticeably dimmer?*
☐	☐	*Does **Intensity Button** adjust light beam to three settings (High, Medium, Low)?*

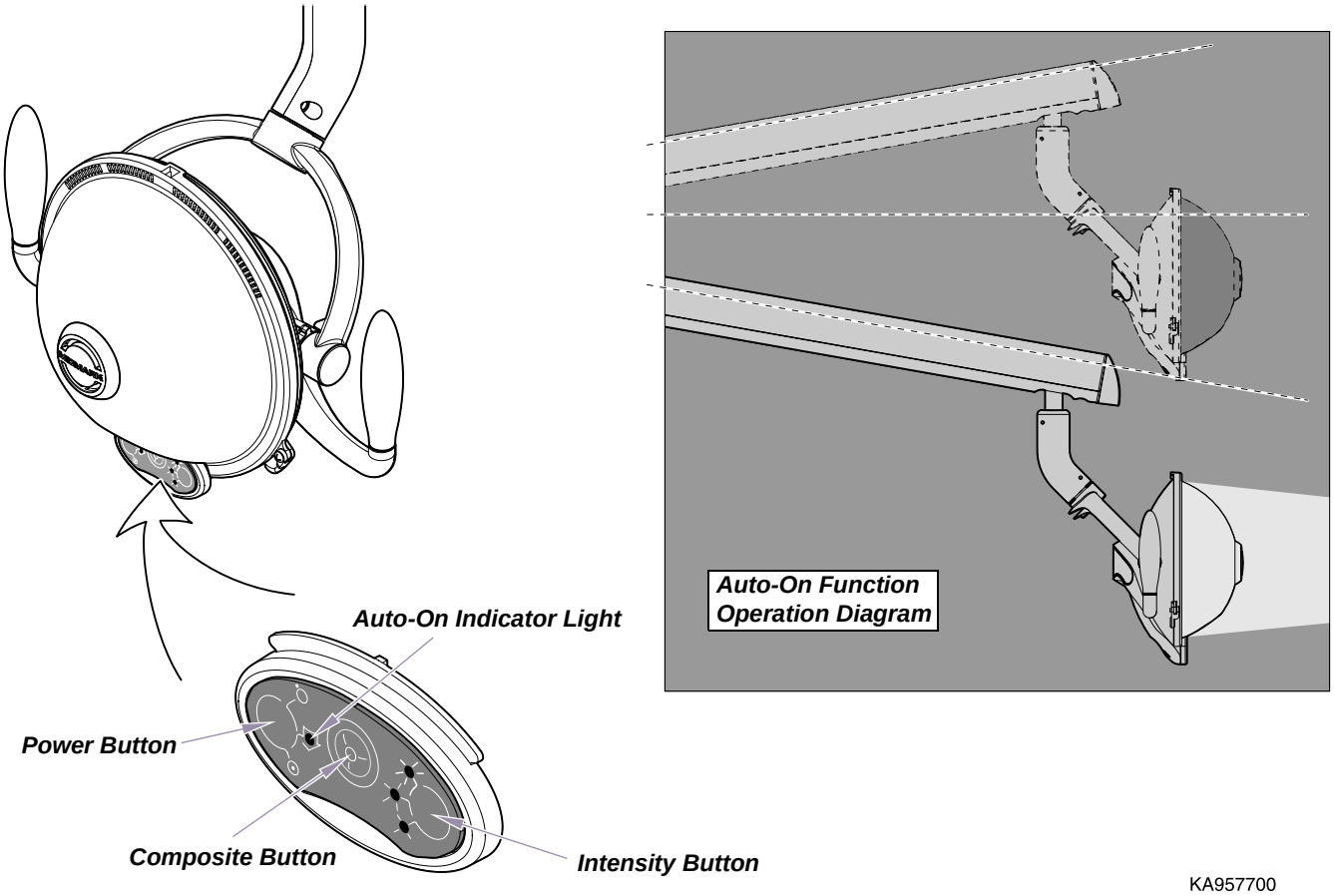

Figure 4. Light Operation

INSTALLATION CHECKLIST - *continued*

EQUIPMENT ALERT
Answering "NO" to any of the following questions indicates an adjustment is necessary. Refer to the adjustment procedures in Figure 5.

Yes	No	
☐	☐	*Does light move easily at all pivot points?*
☐	☐	*Does **Flex Arm** stay in position without "drifting"?*
☐	☐	*Does lighthead stay in position (at all pivot points) without "drifting"?*

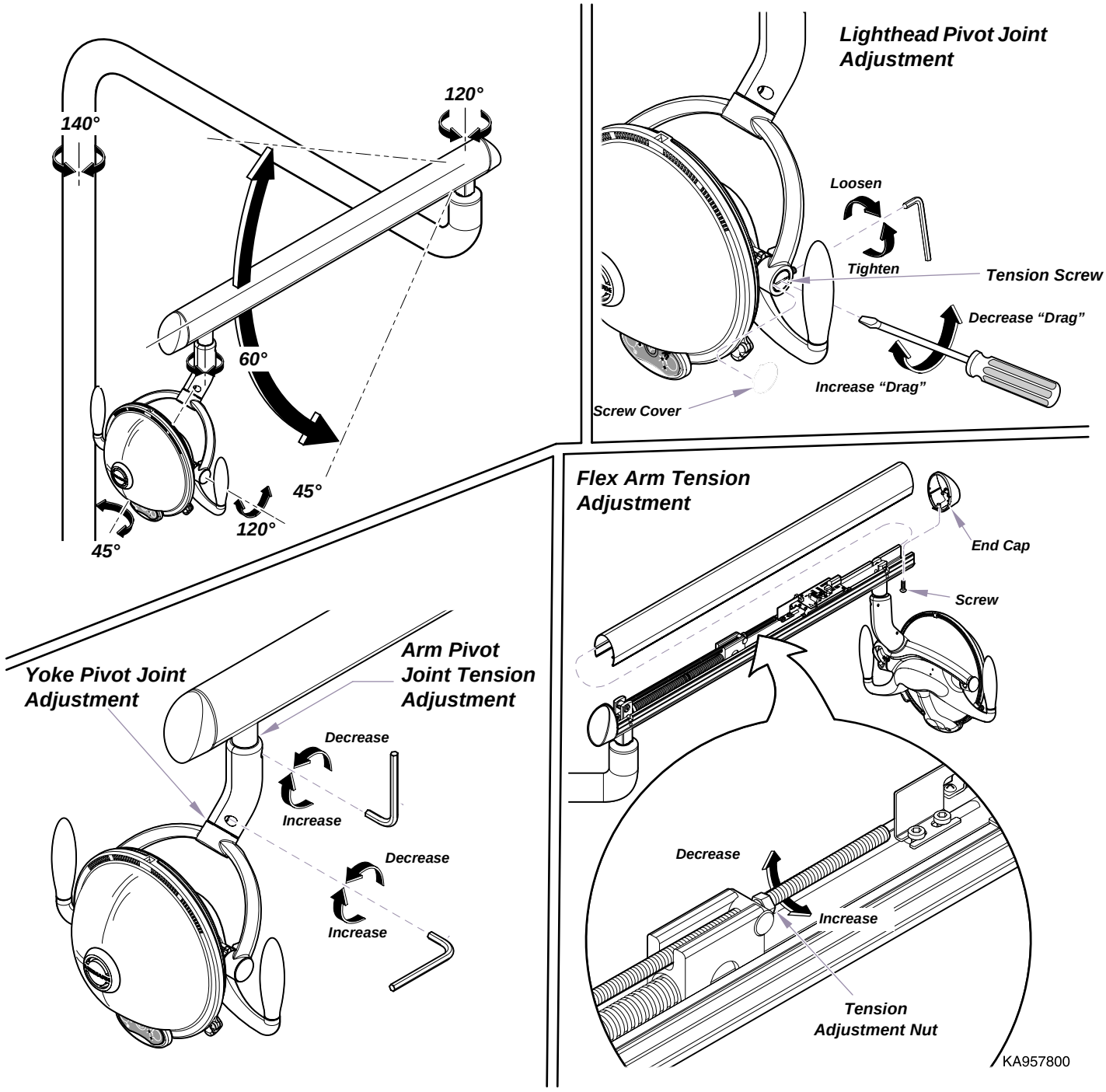

Figure 5. Lighthead / Flex Arm Adjustment Procedures

SPECIFICATIONS

Specifications

Description	Data
Electrical Requirements:	18.5 VAC ±10%, 50/60 Hz 6 amp, single phase
Bulb:	24 VAC, 150 W Tungston Halogen
Power to Bulb @ Maximum Intensity:	15.7 VAC, 5.5 amps
Classifications:	Class 1, Type B, Applied Part, Ordinary Equipment
Certifications:	
Midmark Corporation	ISO-9001 Certified
115 VAC Model	UL2601-1 CAN/CSA 22.2, #601.1-M90
230 VAC Model	Complies to the applicable revision of the MDD 93/42/EEC, Annex VII Complies to the applicable requirements of EN60601-1, EN60601-1-2, EN60601-1-4

TRANSPORTATION / STORAGE CONDITIONS

- Ambient Temperature Range: .... -22°F to 140°F (-30°C to 60°C)
- Relative Humidity ..... 10% to 90% (non-condensing)
- Atmospheric Pressure..... 500hPa to 1060 hPa (0.49atm to 1.05atm)

TORQUE SPECIFICATIONS

Torque specifications apply to hardware used on components unless otherwise noted in these installation instructions:

Torque Specifications

Hardware Size	Torque Values
#6	11 to 21 inch / lbs. (1.2 to 2.3 N•m)
#8	20 to 30 inch / lbs. (2.2 to 3.3 N•m)
#10	32 to 42 inch / lbs. (3.6 to 4.8 N•m)
1/4 inch	75 to 85 inch / lbs. (8.5 to 9.6 N•m)
5/16 inch	18 to 22 ft. / lbs. (24.4 to 29.8 N•m)
3/8 inch	31 to 35 ft. / lbs. (42.0 to 47.5 N•m)
1/2 inch	50 to 60 ft. / lbs. (67.8 to 81.4 N•m)

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